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CERRO COPPER PRODUCTS CO.

A member of The Marmon Group of companies

INTERNAL MEMORANDUM

HQ-10 SHOW NAME, TITLE AND UNIT OF ADDRESSEE AND ADDRESSOR

TO: Sandy Silverstein

DATE: October 1, 1982

FROM: Roy Brown

SUBJECT: Cerro East Lift Station

Sandy, as you know from our past conversations, we are in trouble with two major breaks at Cerro East lift station. The location of these breaks is noted on attached prints. There are many obstacles to the complete repair of these breaks, the worst one being that the invert of the pipes to be repaired are 3.43' under the present (9/27/82) ground water level. I have determined that the lift station itself is not subsiding.

I can offer three options and solicit any suggestions you may have:

1. To effect standard repair I must install three dewatering wells at a cost of approximately $21,000, plus an additional $13,000 to $18,000 tor excavation and repair.

2. Since there is an AFE to close the well and recirculate the bosh tank water, perhaps we can consider abandoning the 15" main along Dead Creek, thus permitting the plugging of this line at the culvert on Dead Creek and reverse flowing any water (sanitary and storm) back to Building 80 Lift Station. This would necessitate cutting one drain line at No. 5 Cooling Tower and diverting directly into Dead Creek.

   One hazard of this is a total dependency on the lift station at Building 80. Also, during storm periods we would be dumping sanitary sewage into Dead Creek. Needless to say, a sewer line with a negative flow is going to create cleaning problems within the sewer. Also, if we were to abandon the 15" main for any extended period of time, it would be almost impossible to ever restore it without a major rebuild. However, in the event we were able to abandon the 15" line, we could then change the invert of the pipe coming out of the manhole at Cerro East and plug the bottom of the manhole by filling with concrete, thus eliminating the need for dewaterint the site.

A third alternative is to change the invert of the manhole as mentioned above and then attempt to insert a 12" sleeve into the 15" main and grout it in, thus restricting the flow in the 15" line. This would cause some additional ponding in the lines, but Video tape reveals there is much of this already.

Roy

RWB/jpl